



Features

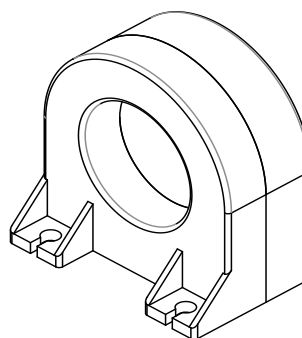
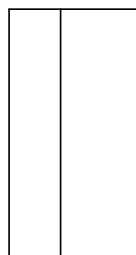
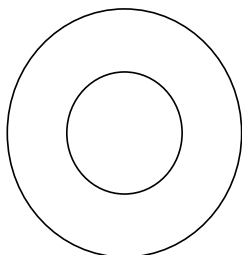
- Nano-crystalline amorphous core
- Used High Permeability
- Realizes effective noise reduction at AM radio band
- Compact dimension
- Insulation grade: Class B (130℃)
- Operating temperature range : -40℃~130℃

Typical Application

- Application Fields
 - ・ UPS
 - ・ PV inverter
 - ・ Air conditioner
 - ・ APF/SVG
 - ・ PFC rectifier
 - ・ EV/HEV
 - ・ High power battery charging system

List

No.	P/N	AL($\mu\text{H}/\text{N}^2$)	AL($\mu\text{H}/\text{N}^2$)	Dimension (mm)			Weight TYP.	Page	remarks
		10KHz	100KHz	OD max.	ID min.	HT max.	(g)		
1	OFNC-17	21.5~50	5.4~12.6	21.5	8.0	11	8	P01	-
2	OFNC-17D	40~92	10.8~25.2	21.5	8.0	13	12	P02	
3	OFNC-20	21.5~50	5.4~12.6	25.0	9.5	11	12	P03	
4	OFNC-25	42~98	11~27	30.0	12.0	13.5	20	P04	
5	OFNC-25D	61~144	17~40	30.0	12.0	18.5	30	P05	
6	OFNC-36	76~180	20~52	43.0	15.0	19.0	75	P06	
7	OFNC-42	60~140	13~32	46.5	22.5	19.0	80	P07	
8	OFNC-47	72~168	17~40	51.0	23.0	19.0	115	P08	
9	OFNC-60	115~265	27~65	65.0	25.0	25.0	215	P09	



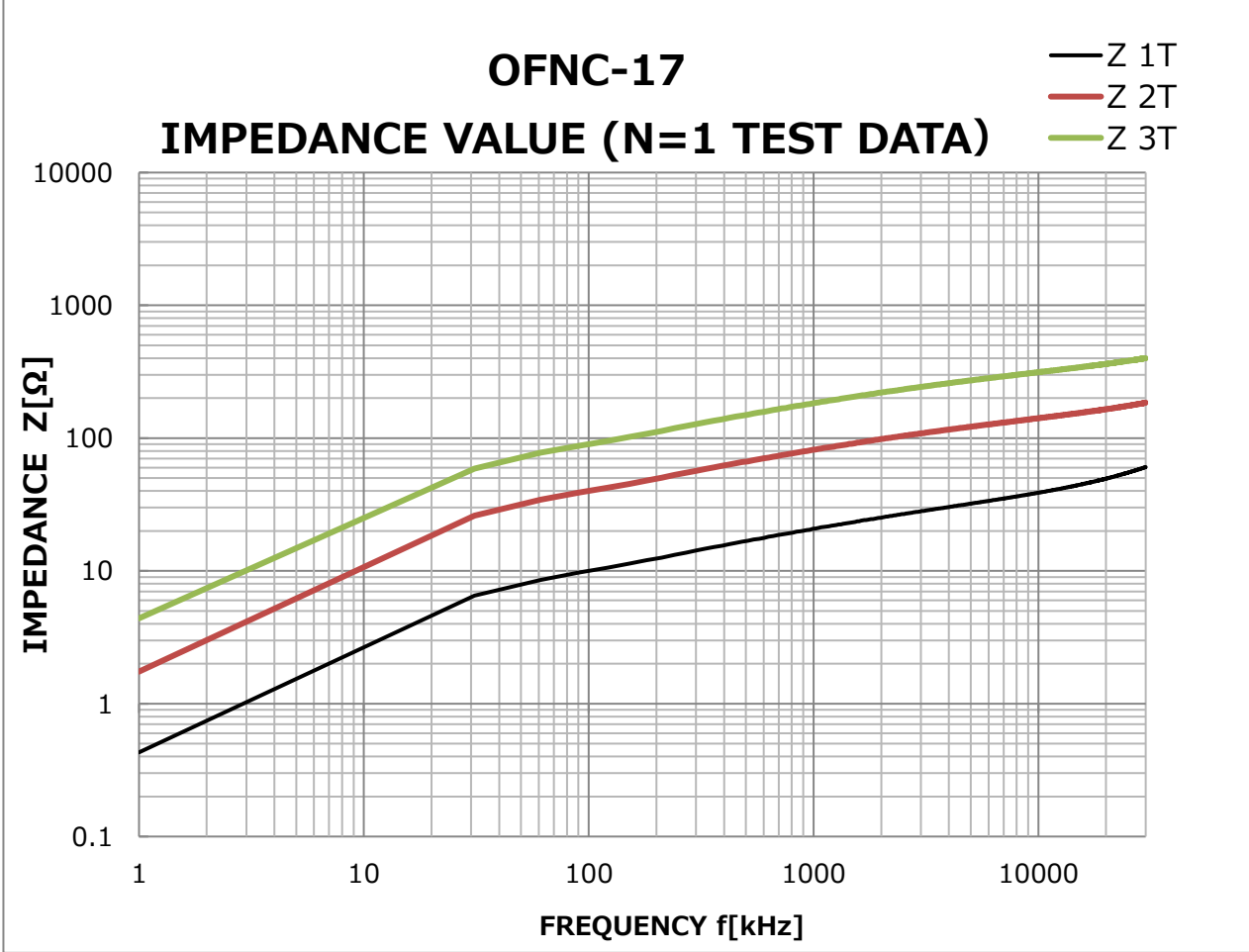
OFNC-17

OFNC Series Nano-crystalline Core

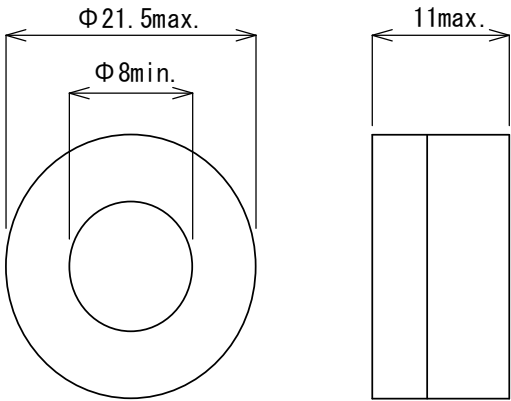
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	21.5~50(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	5.4~12.6(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	40Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃~+130℃	-40℃~+85℃	21.5 x 8 x 11	12 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



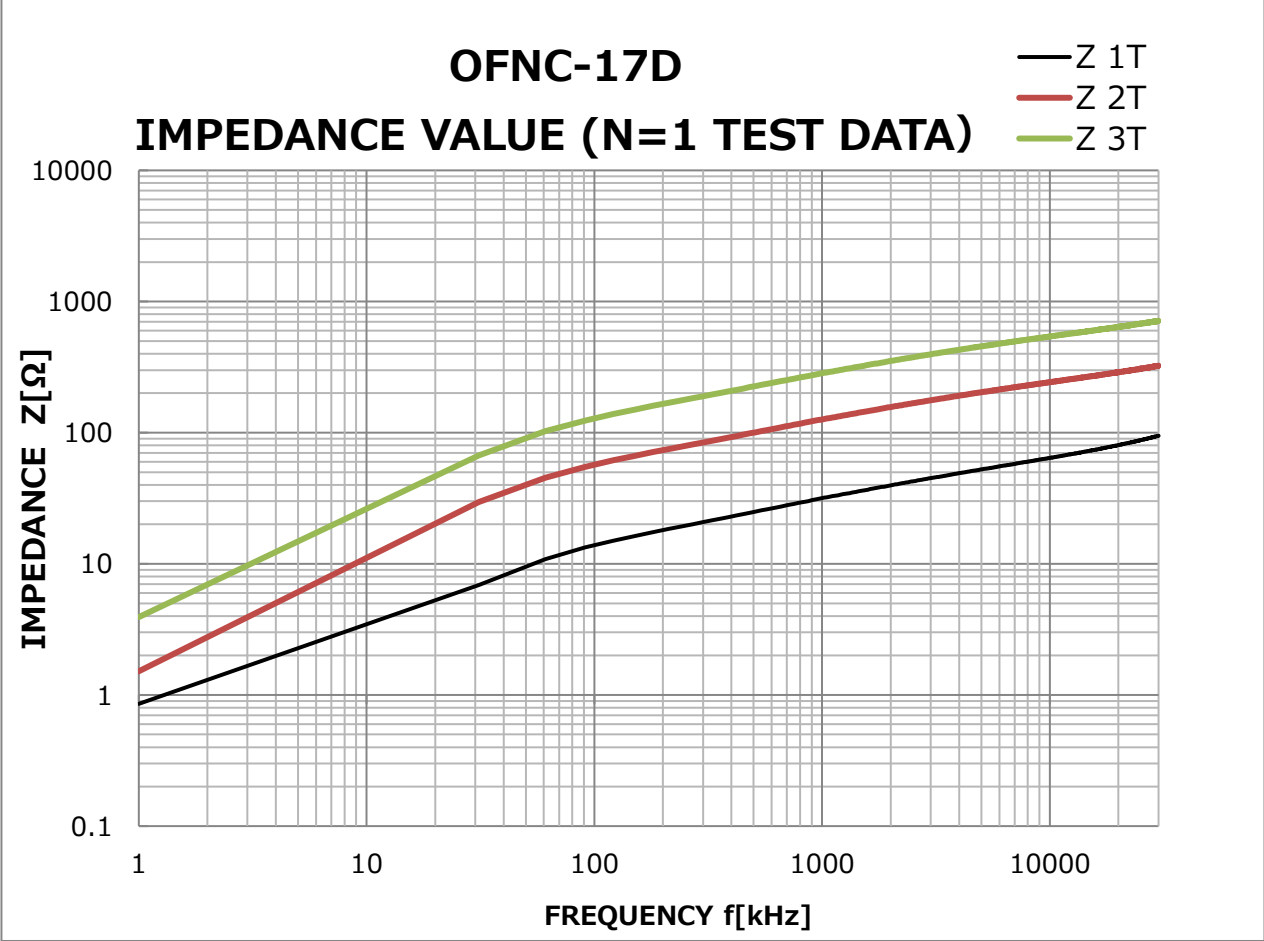
OFNC-17D

OFNC Series Nano-crystalline Core

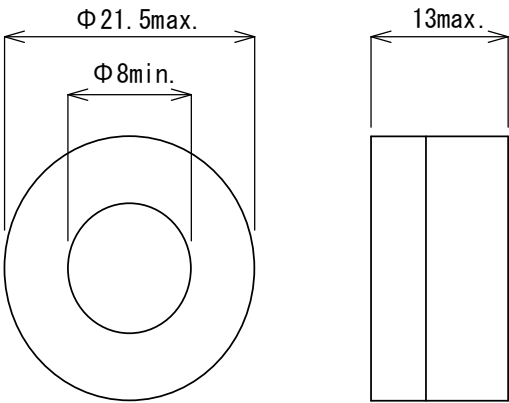
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	40~92(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	10.8~25.2(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	60Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃～+130℃	-40℃～+85℃	21.5 x 8 x 13	12 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



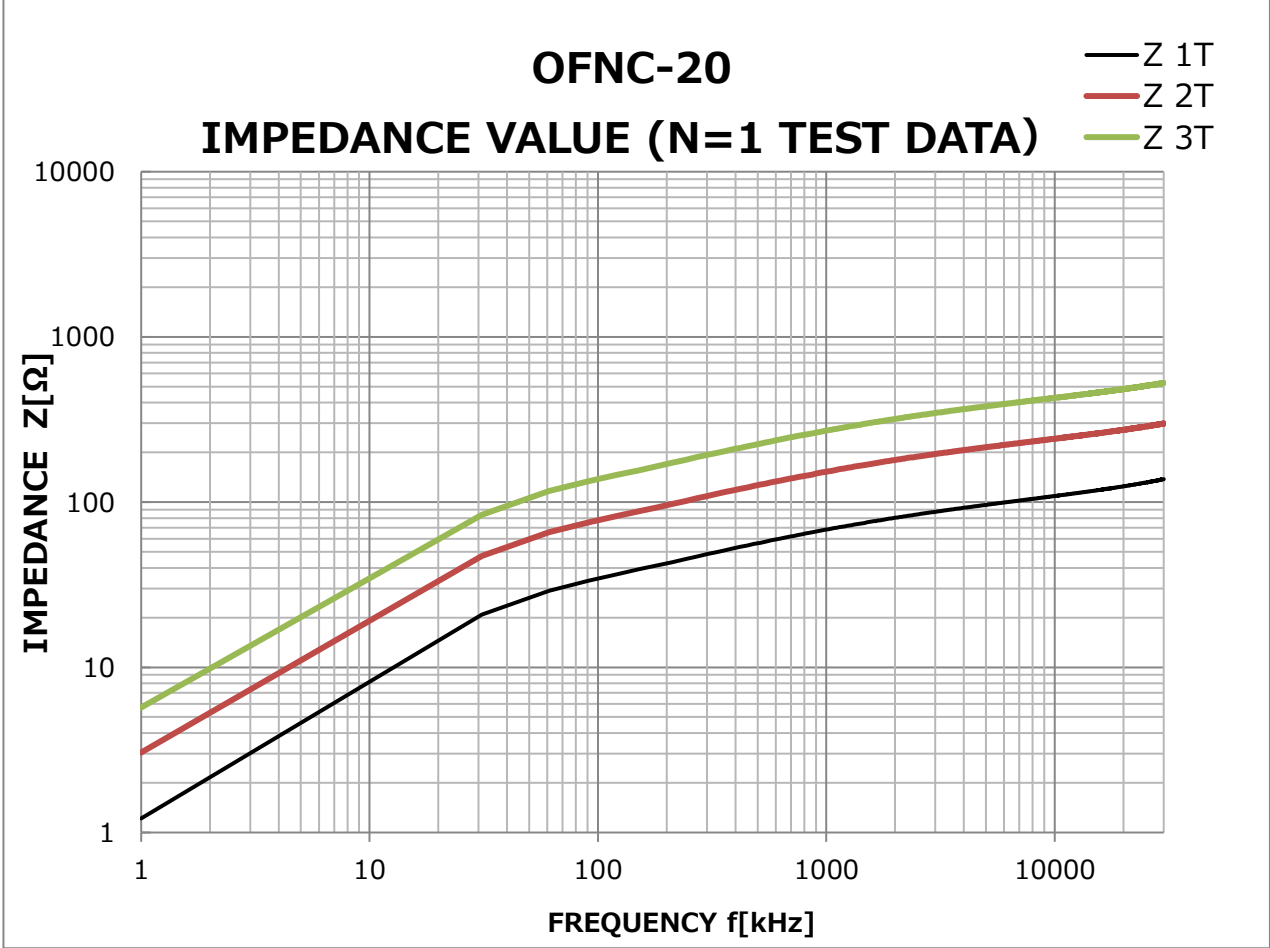
OFNC-20

OFNC Series Nano-crystalline Core

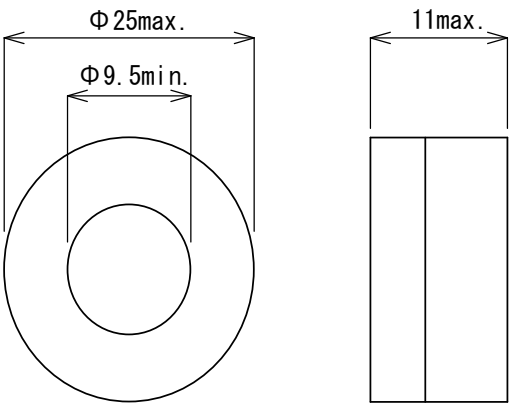
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	21.5~50(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	5.4~12.4(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	100Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃~+130℃	-40℃~+85℃	25 x 9.5 x 11	12 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



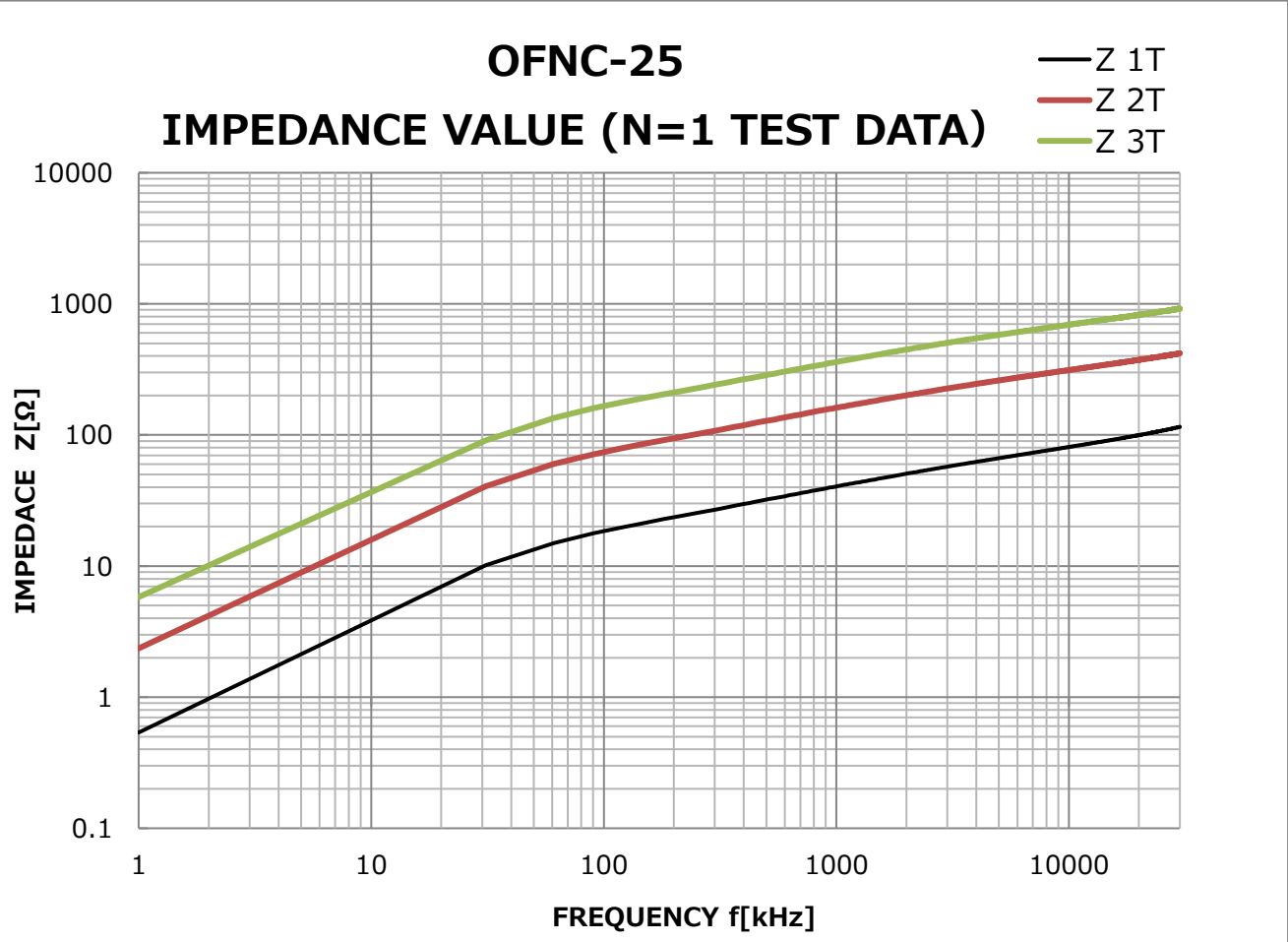
OFNC-25

OFNC Series Nano-crystalline Core

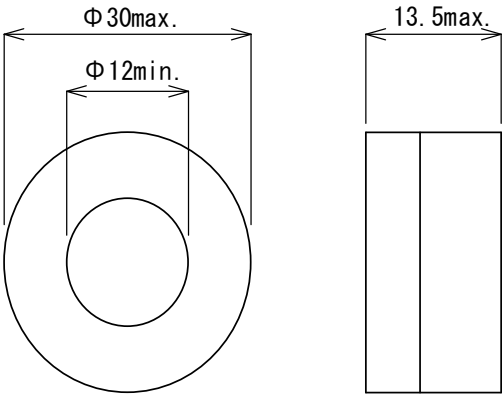
Electric Characteristics & Specification

Items		Testing Condition		Specification	
AL value		Agilent E4980A, at 1V		42~98(μH/N ²) at 10KHz	
AL value		Agilent E4980A, at 1V		11~27(μH/N ²) at 100KHz	
Impedance		HIOKI LCR 3535, at 1V		80Ω typ at 10MHz	
Insulation grade	Operating temp.	Storage temp.		Dimension (mm)	Typical weight
Class B	-40℃～+130℃	-40℃～+85℃		30 x 12 x 13.5	20 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



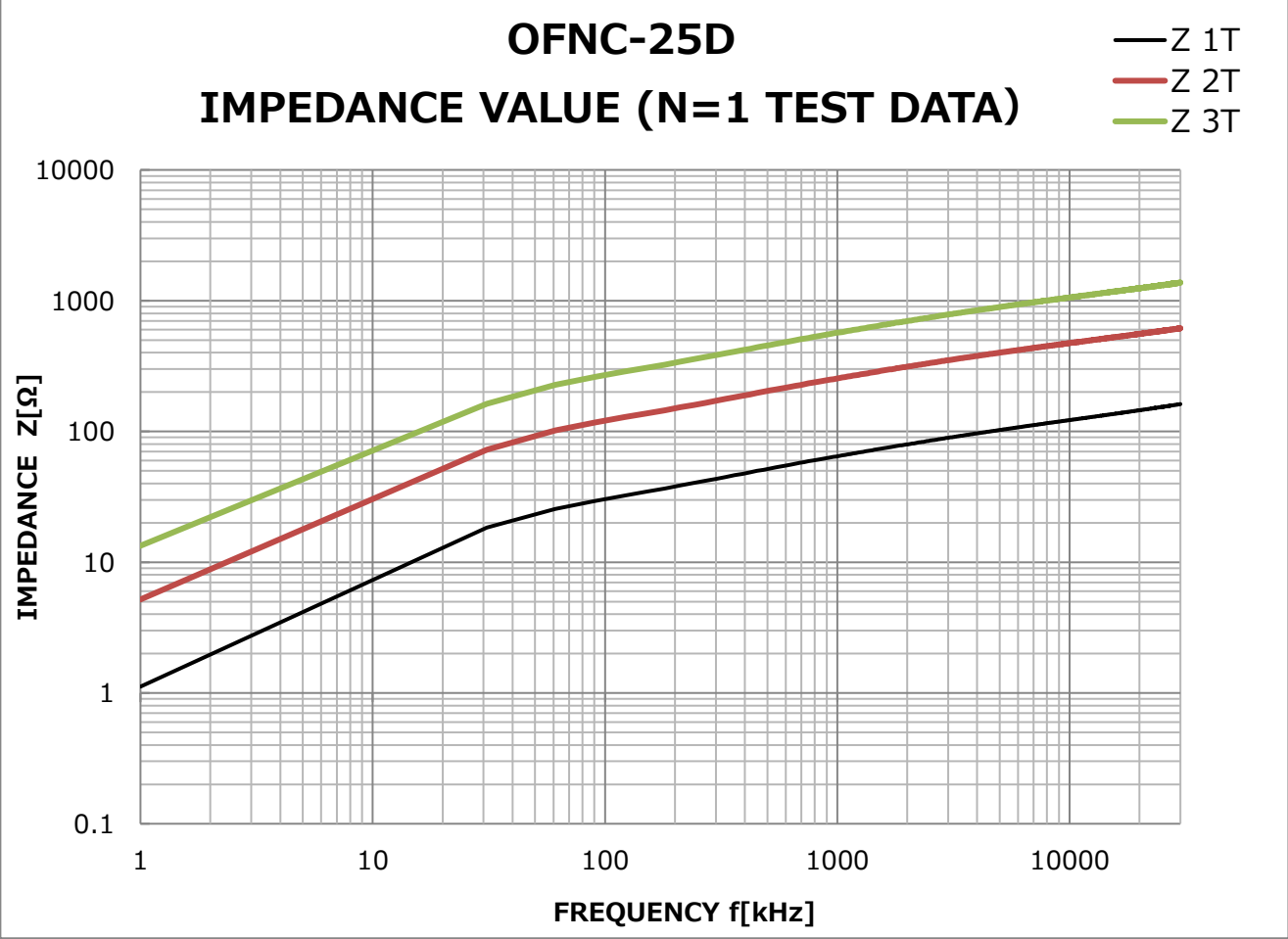
OFNC-25D

OFNC Series Nano-crystalline Core

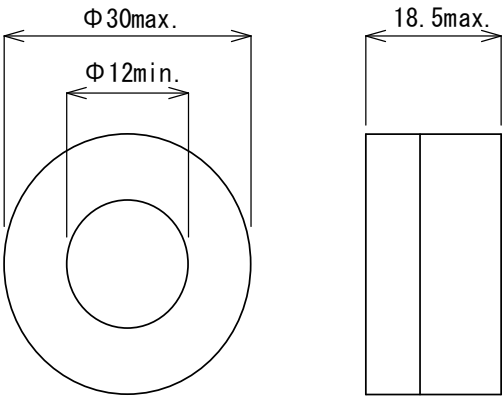
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	61~144(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	17~40(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	110Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃～+130℃	-40℃～+85℃	30 x 12 x 18.5	30 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



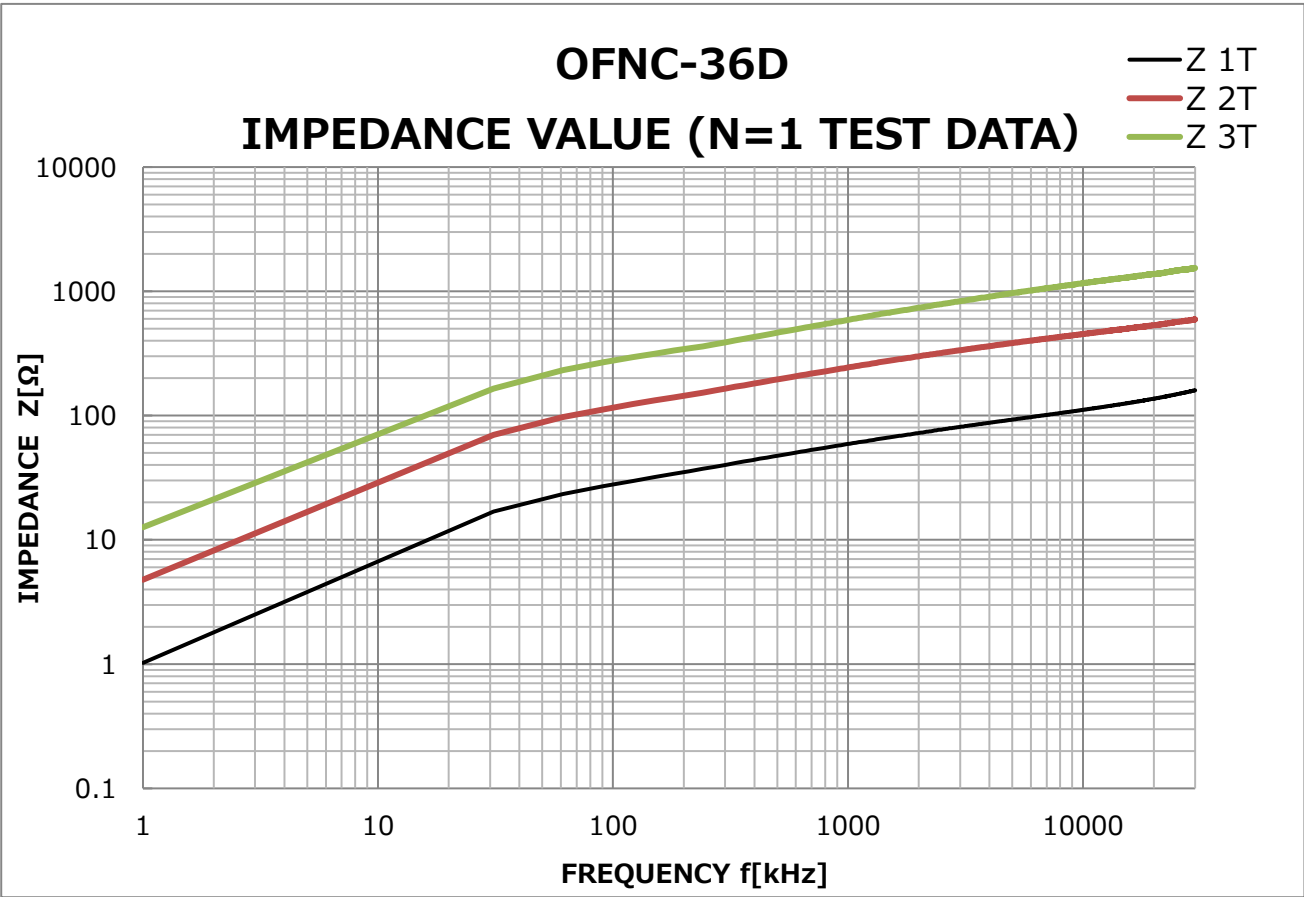
OFNC-36

OFNC Series Nano-crystalline Core

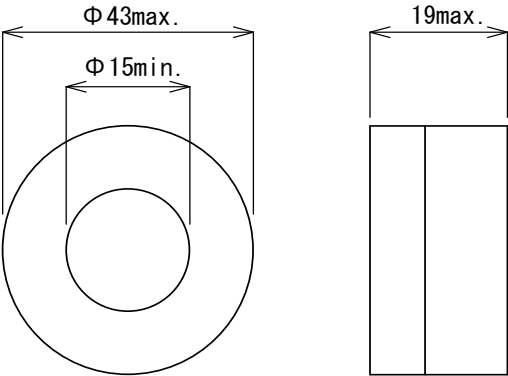
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	76~180(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	20~52(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	110Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃～+130℃	-40℃～+85℃	43 x 15 x 19.0	75 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



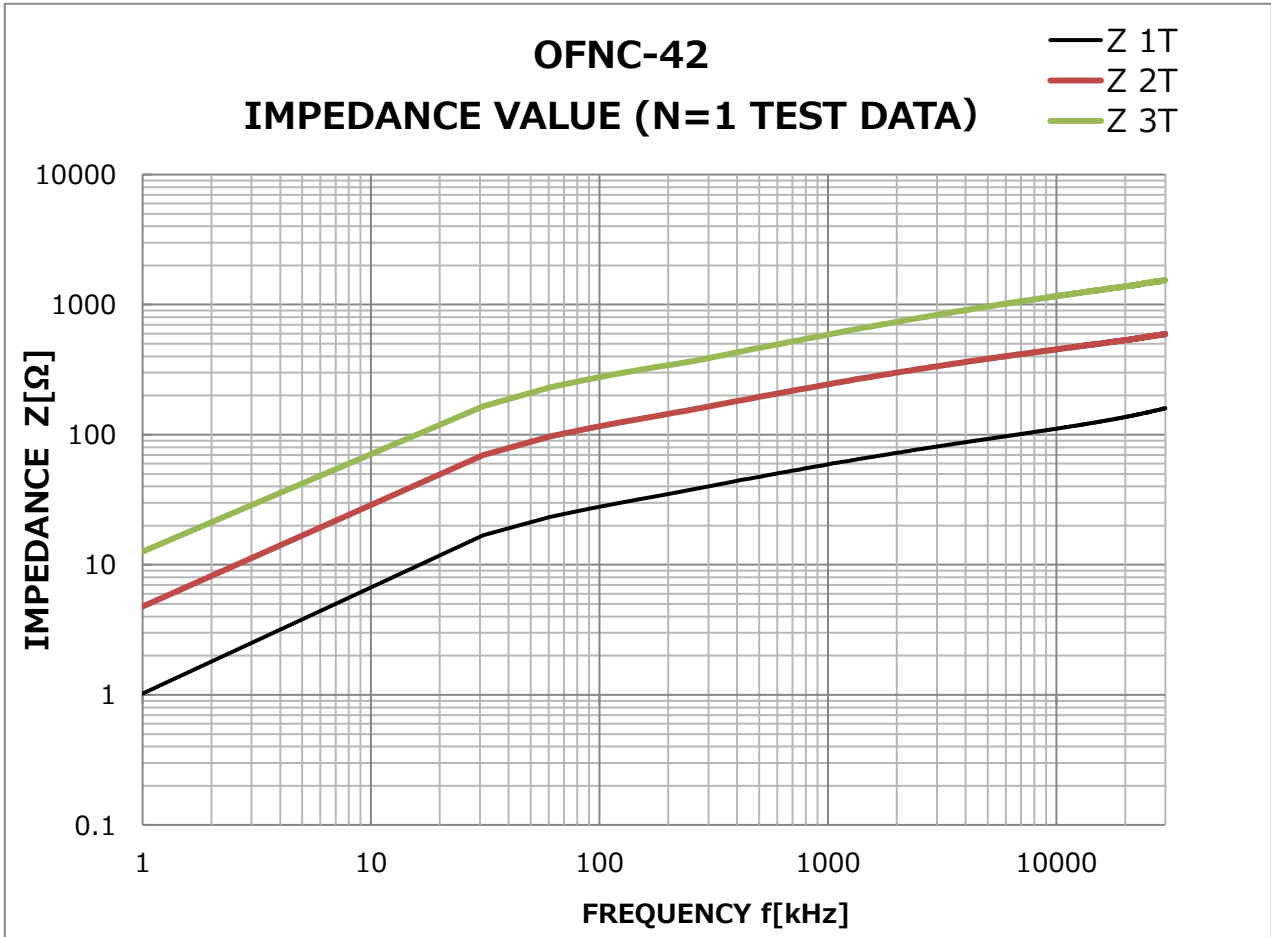
OFNC-42

OFNC Series Nano-crystalline Core

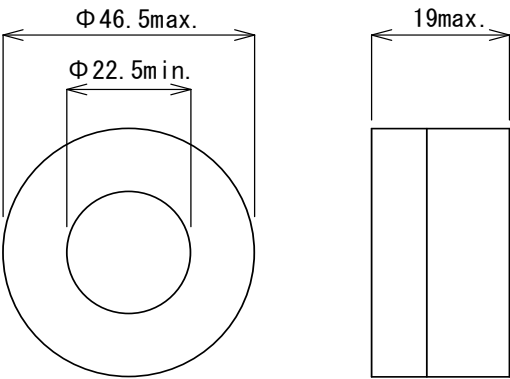
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	60~140(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	13~32(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	110Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃～+130℃	-40℃～+85℃	46.5 x 22.5 x 19.0	80 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



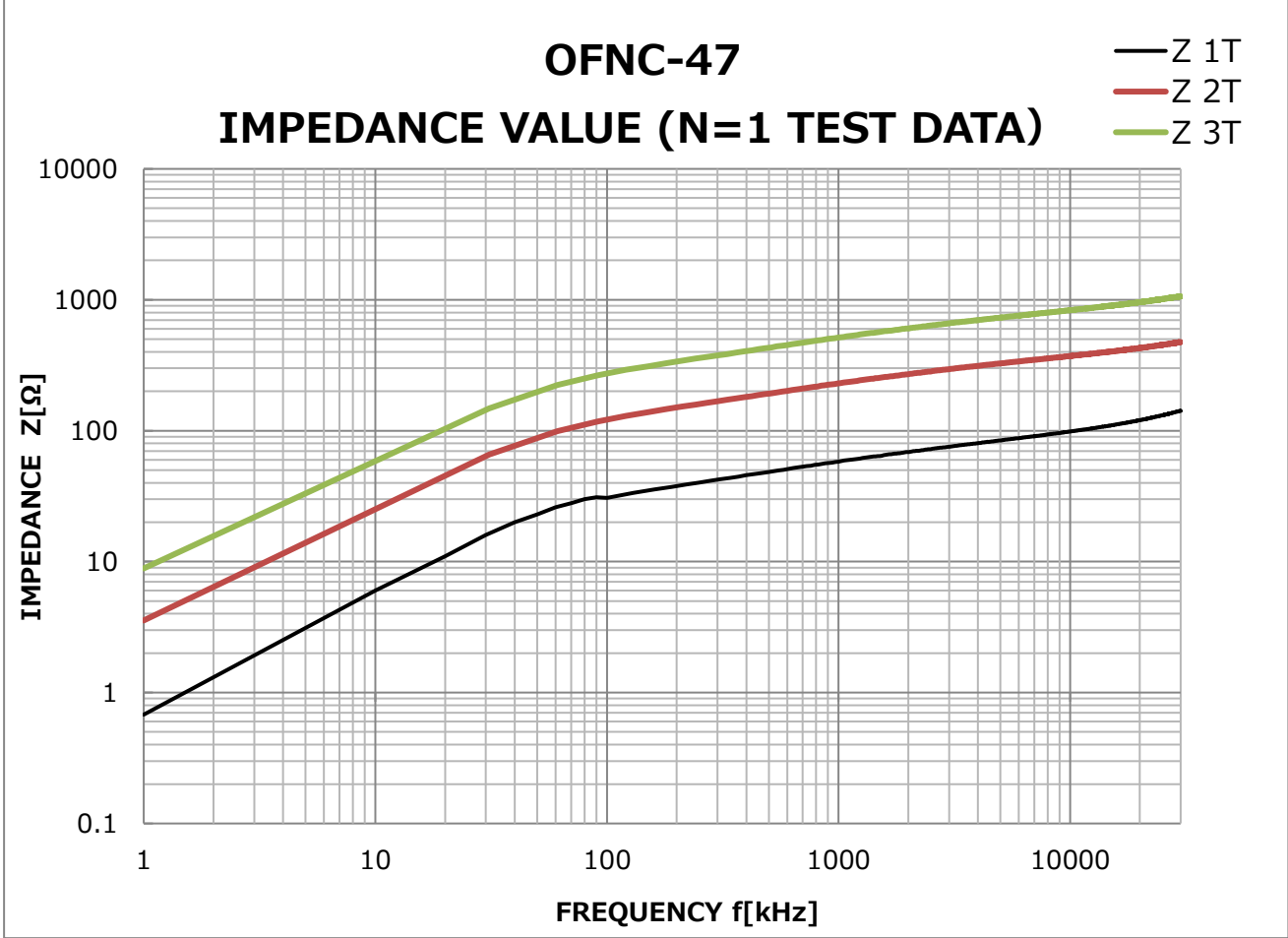
OFNC-47

OFNC Series Nano-crystalline Core

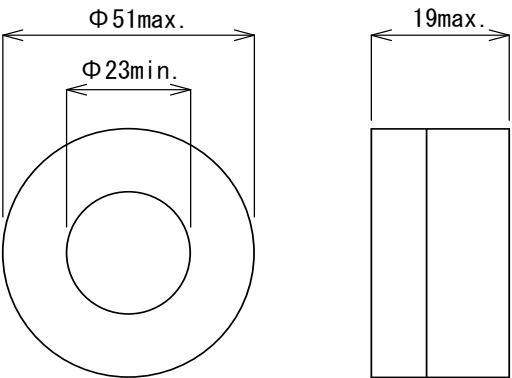
Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	72~168(μH/N ²) at 10KHz		
AL value	Agilent E4980A, at 1V	17~40(μH/N ²) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	100Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40℃～+130℃	-40℃～+85℃	50.0 x 24.0 x 17.0	110 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)



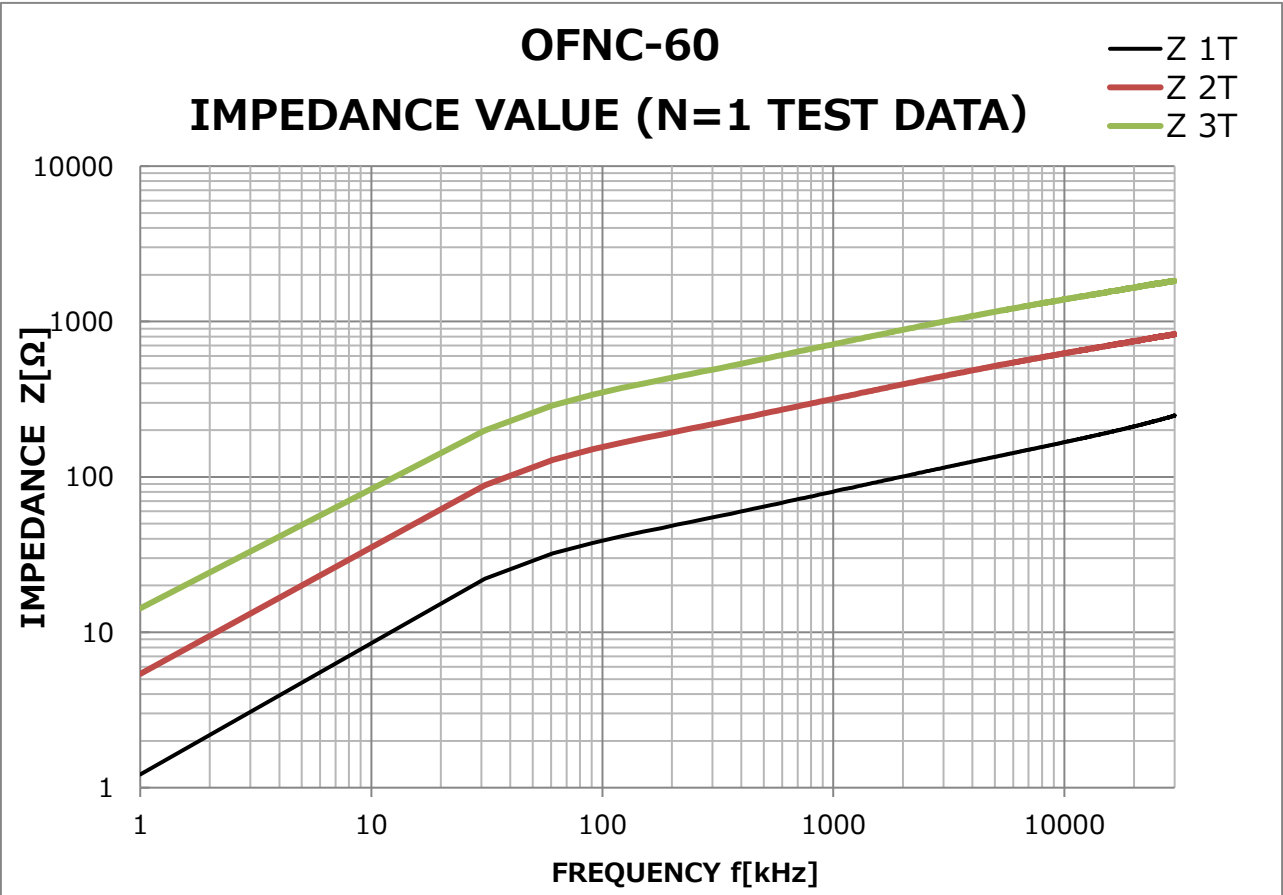
OFNC-60

OFNC Series Nano-crystalline Core

Electric Characteristics & Specification

Items	Testing Condition	Specification		
AL value	Agilent E4980A, at 1V	115~265($\mu\text{H}/\text{N}^2$) at 10KHz		
AL value	Agilent E4980A, at 1V	27~65($\mu\text{H}/\text{N}^2$) at 100KHz		
Impedance	HIOKI LCR 3535, at 1V	170 Ω typ at 10MHz		
Insulation grade	Operating temp.	Storage temp.	Dimension (mm)	Typical weight
Class B	-40°C~+130°C	-40°C~+85°C	65.0 x 25.0 x 25.0	215 g

Impedance Characteristics



Outline Dimensional Drawing (Unit: mm)

